

GENERAL POWER OF ATTORNEY
(Concerning Several International Patent Applications)

The undersigned, Vernon R. Rice, Vice President and Assistant General Counsel of E. I. DU PONT DE NEMOURS AND COMPANY, 1007 Market Street, Wilmington, Delaware 19898 USA ("DuPont"), hereby certifies that the power to sign for DuPont has been granted to various individuals (as set forth in the attached excerpt from DuPont's Patent Board Rules of Procedure (January 1983), Appendix Section III A.4), including the Chairman, Vice-Chairman, and those individuals who are Assistant Secretaries of the Patent Board. Currently these Assistant Secretaries are:

Roger A. Bowman
Linda J. Davis
John E. Griffiths

Miriam D. Mecommathey
Dorothy W. Shafer
Deborah A. Meginnis

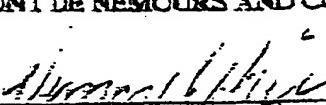
In addition, the authority to act on behalf of DuPont before the competent International Authorities in connection with any and all international patent applications filed by it with the United States as Receiving Office and to make or receive payments on its behalf is hereby granted to:

| | | | |
|------------------------|--------|--------------------------|--------|
| Bernicki, Lori Y. | 34,293 | Katz, Elliott A. | 26,396 |
| Belopolsky, Irina | 43,319 | Kelly, Patricia L. | 39,247 |
| Benjamin, Steven C. | 36,087 | King, Karen K. | 34,850 |
| Birch, Linda D. | 38,719 | Kneller, Mark D. | 31,925 |
| Bowen, Jr., Alanson G. | 24,027 | Kunkel, Charles E. | 27,344 |
| Christenbury, Lynne M. | 30,971 | Janthholm, Arne R. | 30,396 |
| Cotreau, William J. | 36,490 | Langworthy, John A. | 32,255 |
| Deitch, Gerald E. | 30,457 | Lerman, Bart E. | 31,897 |
| Desimonek, Sudhir | 33,677 | Levitt, Cary A. | 31,848 |
| Dobson, Kevin S. | 40,296 | Magee, Thomas H. | 27,355 |
| Duffy, Roseanne R. | 33,869 | Mayer, Nancy S. | 29,190 |
| Edwards, Mark A. | 39,542 | Medwick, George M. | 27,456 |
| Estrin, Barry | 26,452 | Morrissey, Bruce W. | 30,663 |
| Evans, Craig H. | 31,825 | Santopietro, Lois A. | 36,264 |
| Fair, Tamara L. | 35,867 | Schaeffer, Andrew L. | 33,605 |
| Feltham, S. Neil | 36,506 | Schrein, Chryssa L. | 45,343 |
| Floyd, Linda Axamethy | 33,692 | Shafer, Robert L. | 24,437 |
| Frank, George A. | 27,636 | Shay, Lucas K. | 34,724 |
| Gofian, Andrew G. | 25,293 | Shipley, James E. | 32,003 |
| Gorman, Thomas W. | 31,959 | Siegel, Barbara C. | 30,684 |
| Gould, David I. | 25,338 | Simott, Jessica M. | 34,015 |
| Griffiths, John E. | 32,647 | Steinberg, Thomas W. | 37,913 |
| Hanby, Jane Q. | 32,872 | Stevenson, Robert B. | 26,059 |
| Hanby, William H. | 31,521 | Strickland, Frederick D. | 39,041 |
| Heister, David E. | 31,366 | Tessari, Joseph A. | 32,177 |
| Hendrickson, John S. | 30,847 | Tulloch, Rebecca W. | 36,297 |
| Jones, Brian C. | 37,857 | Walker, P. Michael | 32,602 |
| Jonung, J. Kenneth | 41,881 | Wang, Chen | 38,650 |

The undersigned ratifies fully all actions already taken by the above-named individuals in accordance with the authority granted hereby.

E. I. DU PONT DE NEMOURS AND COMPANY

By:


Vernon R. Rice

Vice President and Assistant General Counsel

Date: 5/1/2018